GND REF. 7
SUMMING MODE 8
CONTROL INPUT 5
FREQUENCY CONTROL INPUTS J4
J3
J5
"S" CLAMP TRIG.
V "CLAMP TRIG J12
WIDTH CONTROL INPUT J10 J11
+12 1
GND 2
-6 3
RECT. WIDTH 6
SINE 9
TRIANGLE 11
RECTANGLE 12
SAWTOOTH 16
J2 AUX. OUTPUTS
J1
J9
J8
J6
J7

91-123

91-125B

SW4 COARSE RANGE
SUB AUDIO
AUDIO

SW1 RANGE
MATCHED SET 1K R8 R9 R10

SW2 AUX. OUT. WAVEFORM

AUX OUT LEVEL R1 50K AUD

SW3 SCALE

R2 FREQ. 5K

R3 WIDTH 25K LIN

TR1 OFFSET

"S" CLAMP 2.5K LIN R4

R320 2K TRIM

R555 10K TOP END

R549 100K BOTTOM END

R545 1K HI. ADJ.

R601 1MEG

R602 20K 1%

R511 100Ω SCALE TRIM

R515 18.7K 1%

R519 100K 1%

R524 274K 1%

R525 100K 1%

R546 68.1K 1%

R547 47.5K 1%

R548 100K

R550 220K

R551 15K

R552 220

R553 22K

R554 33K

R556 33K

R557 33K

R558 10K

R559 4.53K 1%

R560 10.7K 1%

R561 180K

R562 2.2K

R563 10K 1%

R564 1.2K

R565 1K

R566 2.4K

R567 100K

R568 75K 1%

R569 470K

R570 100K RECT. WIDTH

R571 470

R572 100K

R573 10K

R574 2.4K

R579 1.5K

R584 68K

R585 SINE SHAPE

R590 680

R597 2.2K SINE OFFSET

R598 1K

R599 1.5K

R11 1.5K

C501 .01

C502 100pf

C503 27μf

C504 1.0μf

C505 .033μf

C506 .005μf

C511 .001

C512 .005

C513 .0022μf

C515 .47μf

C515 500pf

C509 10μf

C510 10μf

Q501 2N4402

Q502 2N3904

Q504 2N3904

Q505 E400

Q506 2N3904

Q507 2N3904

Q508 2N3904

Q509 2N3904

Q514 E112

Q301 2N3904

Q302 2N3904

Q303 2N3906

Q304 2N3904

Q305 2N3906

Q307 2N3906

CR301 IN4148

CR302 IN4148

CR303 IN4148

CR501 IN4148

CR502 IN4148

CR503

CR504 IN4148

IC301 741A

IC302 741

IC303 741

IC304 741

IC305 741

IC306 741

IC307 741

IC502 741

IC504 741

IC506 741

IC510 748

IC511 741

IC507 3080

IC508 SG3821

IC509 SG3821

R301 49.9K 1%

R302 909K 1%

R303 22K

R304 383K 1%

R305 76.8K 1%

R306 66.5K 1%

R307 100K 1%

R308 1K CERMET

R309 267K 1%

R310 66.5K 1%

R311 100K 1%

R312 100K 1%

R313 100K 1%

R314 33K

R315 10K

R316 330K

R317 10K

R318 10K

R319 10K

R320 10K

R321 200K 1%

R322 100K 1%

R323 100K 1%

R324 49.9K 1%

R324 20K

R325 100K

R326 100K

R327 100K

R328 100K

R329 10K

R330 499K 1%

R331 499K 1%

R332 51K

R333 100K 1%

R334 100K 1%

R335 100K 1%

R336 533K 1%

R337 100K

R338 100K 1%

R339 51K

R340 100K 1%

R586 8.2K

R587 8.2K

R588 470

R589 2.7K

R591 270K

R592 200K SINE SYM

R593 18K

R594 470

R595 18K

R596 6.2K

R509 1K ±2% TC

R510 1K 1%

R512 221Ω 1%

R513 1K

R514 82K

R543 10K

R544 470

R600 4.99K 1%

C302 0.1

C303 0.1

R509 1K ±2% TC

R5 1K

R6 1K

R7 1K

R8 1K

R9 1K

R10 1K

R11 1K

32'

16'

8'

4'

2'

1'

+12V

-6V

+6V

+12

-6

NOTES:

1. ALL RESISTORS 5%, ½ WATT UNLESS OTHERWISE NOTED
2. 1% RESISTORS MATCHED TO 0.1%
3. (X) DESIGNATES REAR CONNECTOR NUMBER (PCB 91-125)
4. (X) DESIGNATES P/C BOARD INTERCONNECTIONS

TYP. 741/748 IC

TRANSISTOR TOP VIEWS

E 400

E 112

2N3904, 2N3906

COMPONENT DESIGNATORS

NO PREFIX → FRONT PANEL
3XX → 93-123 PCB ASST
5XX, 6XX → 93-125 PCB ASST

ITEM	PART NUMBER	DESCRIPTION	MATERIAL

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCE FRACTIONS ± 1/64 ANGLES ± 1/2° 3 PLACE DECIMALS ± .005 2 PLACE DECIMALS ± .01 125 FINISH ON ALL SURFACES

DRILLED HOLE TOL .040 – .125 DIA ±.002 tol .126 – .281 DIA ±.003 tol .282 – .500 DIA ±.004 tol .501 – .750 DIA ±.005 tol

DRAWN BY	JRB 7/14/71
CHECK	
GRP ENGR.	
REVIEW QC.	
SUPERVISOR	
NEXT ASSY	921
APPLICATION	MODEL NO.

moog MUSIC INC. WILLIAMSVILLE, NEW YORK

921 OSCILLATOR SCHEMATIC DIAGRAM

SIZE C | CODE IDENT | 08-036

SCALE —— | WT. | SHEET 1 OF 1